

Fig. 1

1	MSK-RSNRK	FVL----	WVMLILFTPHISLASVLNDHN-----	SMYVGIOYKPARQHLSKLLIKESAA-----	N-----
2	..	-----	YAKVFILIC..	LV.SL.F.I.N.---	FLKDNIGHF.I.G...GVPRFNRF.VTNNNIRELMSDDEEC
3	..	-----	Q.LYISFIILSG.L--	L.KVYFC-----	MHQNNNIDGS..T.K.QLTTP.FKNFY...TDF-----DTQEP-
4	.YMNK	KHYCIYIVTYITLFF.LL	IE..SALI--	G.VEKDLKVS.T..SS...	SIF.FRNFS.Q..HP-----K----
5	.---	TKKFN..NV--	ILTF.LFLF.LK.FTTYA--	N.-NTITQKVGL.ISG...	SIP.FKNFSVE.ND-----K-----
6	.---	S-KK..ITIGTVLAS.LS	LSIE.FSAIN--	..-HTGNNTSGI.ITG..R.GVS.F.NFSV..TNV-----D-----	
7	.---	SAKK.LFIIGSVL.C.VSYL	TK..SNLN--	NI-NNNTKCTGL..SG...	TVS.F.NFSL..TYT-----D-----
8	.---	S-KKN.ITIGATLIHML--	L.N..FPETI--	N.-NTD-KLSGL.ISG...	GIS.F..FSV..IYN-----D-----
9	.---	NNRKS.FIIGASLLASL..	SEA.STGNV--	S.-HTYFK-PRL.ISG..R.GVS.F..FSV..TNY-----	
10	.---	NKKN..I-IATAL.-YL	SL.SV.FSE.T--	NS-SIKKH-SGL.ISG...	SVSVF.SFS...TNT-----I-----
11	.---	NHKSM	LFTIGTALI-SL.SL.NV.FSGII--	N.-NAN-N-LGI.ISG...	SVSVF.NFSV..TNF-----T-----
12	.---	KKKNQ.ITISTIL.-CL	SLSNA..SNTT--	NS-STKKQ-FGL..SG...	SVSIF.NFSV..TNF-----P-----
13	.---	NKKN..FTISTAM.-CL	LL.G..FSETI--	N.-SAKKQ-PGL.ISG...	SVSVF.NFSV..TNV-----P-----
14	.---	NYK.IF-VSSALIS	MSIL.YQ.F.DPVTSNDTGINDSREGF	ISVK.N.SIS.FR.FSAE.API-----	GNTSI
15	.---	NCK..F-ITTALALPMS	L.G.L.SEPVQ.DSVS-----	GNF.ISGK.M.SAS.FGVFSA..	-----EKNP
16	.---	NCE..F-ITTALT	MS.L.G...SDPVQ.D.IS-----	GNF.ISGK.M.SAS.FGVFSA..	-----ERN
17	.---	NCK..F-ITTAL	S.MS.L.G..FSDPVQGD.IS-----	GNF..SGK.M.SAS.FGMFSA..	-----EKNP
18	.---	NCK..F-ITTTL	S.MS.L.G..FSDAVQND.VG-----	GNF.ISGK.V.SVS.FGVFSA.Q-----	-----ERN
19	.---	NYK.VF-ITSALIS..	SSL.GV.FSDPA-GSGIN-----	GNF.ISGK.M.SAS.FGVFSA..	-----ERN
20	.---	NYK...-VGVALAT	LS.L.DN.FSDA-----	NVPEGRKGF...T...VGVPNF.NFSAE.TL-----	-----PGL
21	.-RYK	DFSN--NIDV	IIGTVG-----	CFSGS.DVSD-SLNSRLKPVFL..S...LSAPLF.SFS.G.TYR-----	-----INGVK-

**Fig. 2A**

1	TVEVFGKKDLNDLLTGKIDNT-----NENIKYNPYENNRGLGFSIGFYGYNNKNFRIESELSESYETFIKNNG	127
2	RSTIPHMVQSVAGT.PPEALEELADGKFPEGYLY.T.P..T.KK.L..AG.VI..S-TTH..V.V.AF.DK.NLTAPA	148
3	---I..A.ITA.TKFDTL.E.FSFSPL-----HQDTS.KS-.Q.DL..IGLSV.L-FV.S...F.GA.KN.NT.RLA	128
4	-----SSEEFKKIKANLN.ILKSNA-----LQFQD.TTS...TI..-FS.GL.L.A.GC.QE.NV..SN	130
5	V.DLI..TT.VTYIT-----EHILRDNT-----K..TH.IAKFK..FIN..SAI...SQQGP.L.I.S..GD.DVV.YK	131
6	.IQLV.Y..SASSI-----DPNTYS-----QGP.TVTFQD.AAS...AI..S.PESL.L.L.G..K.DV.DPK	130
7	.K.LL..A..IKSIT-----DITTNK-----K...P..TKFQD.AVS..AAV..ISQDSP.V.V.W...E.DV..P.	132
8	NIQLI..RHNAISTS-----LNINT-----D...P.KVTFQ..ITS...AI..SDPTGA.F.L.G..E.DVTD.P.	128
9	.TQLV...ISVIG-----NSNITTYT-----FP.IAEFQD.AIS...AI..L.SE...V.A..E.DV..PE	133
10	.KILIA...INSLEVNADASQGISHPG-----T.P.IAAF.D.AFN.N.AI..-ITEGL...I.G..E.DA..P.	135
11	.QQLVA...IDSVDISTNA.SGINNPQ-----T.P.I.KFQD.AAS...AL.FF.ARGL.L.M.G..E.DV..P.	136
12	.KYLAA...INSVEFDDSVTAGISYPL-----STP.IAVFQD.ISN.N.AI..TFVEGP...I.G..E.DV.DP.	137
13	.KQLIA...INSVAVGSNATGISNPG-----T.P.TAEFQD.VAN.N.AV..SFPDSL...I.GFH.K.DV..P.	137
14	.KK.....GD.AQSANFNRT-----DPALEFQN---LIS...SI..AM-DGP..L.AA.QK.DA..PD	135
15	.ALY...Q.WNG-VSASSHADADFNNK-----GYSF..EN---PF...A.AI..SM-GGP..F.V...DV..Q.	130
16	.G...IEQ.WDRCVISRTTLDIFTVP-----YSF..EN---LFS..A.AI..SM-DGP..L.V...A.DV..Q.	131
17	.ALY...Q.WEG-ISSSHNDNHFNK-----GYSF..EN---PF...A.AI..SM-GGP.V.F.V...DV..Q.	130
18	.IG...Q.WDGSTISKNSPENTFNVF-----YSF..EN---PF...A.AV..LM-NGP..L.M...DV..Q.	131
19	.G...Q.NWWDGSAISNSSP.DVFTVS-----YSF..EN---PF...A.AI..SM-DGP..L.V...DV..Q.	130
20	.KSI.A.GL.-----KSS.S.HAGFTQA-----Y.PT.AS---FA..G.VI..V-ND..V.F.GA..N.EPERQ-	123
21	.DR.V...S.---I..DAD.AMKDFNNF-----SEE.V.K.D..IF.L.F...SFRN-L.V.L.G..KK.DVIDTR	136

Fig. 2B

1	--YKRI-DCEKHFALEISGGSNNPANNK-----YVTLINNGISLTSALINVCYDVVDGLKHN-IITYSCL	189
2	G-.LH-KNFYFY...TTMDTKHPHQSAEDK-----YMK.T.T.SPFI.A...FILK.TRNVP.L..	213
3	-R..S-K.GY.Y..IPRKSEH.FLDNT-----FG.TVAK...II.NI..L.SETKYKS---FTP.I.I	188
4	N-SLI.SSN-.YHSRIHDEN-----AITT..KL.IA.IMV.T...ISINNTS-.VP.L.T	183
5	N-.A-VQ.VNRY...VR.KN.SNFS.KPHETSQPSDSNPKKSF-.TLMK...VFVA.VI..G...FSFNNTT-.SP.V.I	207
6	D-.S-AK.AFRF...RNT.T--TV.DAQ.-----Y--TVMK...L.VA.IM..G...LSENNLV-VSP.I.A	191
7	N-.V-VSEAFRYI...RG.DNLQKY.ET.-----Y--VIK...L.VA.II..G...FSLNNLK-VSP.I.V	195
8	D-CL-.K.TYRY...RNP.---SS.TS.N-----Y--TVMR.D.V.I..VIF.G...IFLKDLE-VSP.V.V	189
9	G---SAT.AYRY...RAMD.T-----KSSPD--DTRKF-----TVMR.D.L.IS.VM..G..NFTLDDIP-VVP.V.A	197
10	G-.G-LN.AFRY...RDMESNKFQ.KAQSSQ-----KVF-HTVMKSD.L.II.IMG.GW..FSSDNLV-VSP.I.G	203
11	G-.TKVK.AYRY...R.MQS.QTC.KHKETS---GIQPHGIY-HTVMR.D.V.IS.VI..G..NFTLSNLP-.SP.M.V	210
12	R-.TE.Q.AYRY...RD.DSIPTS.K.RTSHD--GNSSYKVY-HTVMK.E.L.II.IMV.G...FSSDNLV-.LP.V.G	212
13	G-.TQVK.AYRY...RDLKD.FFE.KAEDTG-----VY-HTVMK.D.L.IL.TMV...FSVDELIP-VLP.I.A	205
14	NNDTNSG.YY.Y.G.SR.DAIADK-----K-----V.K.E..TFM.LMV.T...ITAEGVP-F.P.A.A	195
15	GN..NDAH--RYC..DRKA.ST--N.TASH-----L.K.E.LLDI.LML.A...VSEGIP-FSP.I.A	191
16	NN..NEAH--RYY..SHLLGTETQIDGAGSA-----S.F..E.LLDK.FML.A...ISEGIP-FSP.I.A	195
17	NN..NDAH--RYC..GQQDNS.---IPKTSK-----L.KSE.LLDI.FML.A...IINESIP-LSP.I.A	191
18	NN..NDAH--YY..TH--NS.GKLSNAGDK-----F.F.K.E.LLDI.LML.A...ISEGIP-FSP.I.A	193
19	NN..NEAH--RYC..SH--NSAADMSSASN-----F.F.K.E.LLDI.FML.A...V.EGIP-FSP.I.A	192
20	-W.PEGGESH.F...SR.STVQD.-----K-----FIV.E.D.VIDK.LNV.F...IAHGSIP-LAP.M.A	182
21	NHL--VDNNYR.I..VR-----SNPPTLYD.FV.K.D.VEFY.TIL.I...FAVDT--.VPF..V	193

Fig. 2C

1	GFGVDTIDFLSKYTTKFSYQGLGASYTVSPQSVFIEGYYHGLFGKKFEKIPVNPYCDYPSPTPP--NSKPHVHTTALA	267
2	.V.GNF...DQVSF.A.A.V.I..F..NIAF.D.SF..HLNNQ.SDS...--V..	280
3	.V.G.F.EIFDVMRI.A...V.V.PITSKLILS.N.Q..KVI.N..LL..YQ.VELKRLVTNKTSKDIDQDV..SL	268
4	.I.E.LVGLFNTIHF.LA...V.M.LINNILL.SDI...KVM.NR.KNLY-----MQYVAD--PNISEETIPI..	254
5	.V.G.F.E.FEVMHI.AC.S.V.I..PI..SITI.ADAH..KVINN..NNLH-----VKYSYE--LKNSPTI.S.T.	278
6	.I.E.F.E.FDTLHI.LA...I..YFF.KIN..AG...RVI.N..KNLN-----VNHVVT--PDEFPKA.S.V.	262
7	..G.I.E.F.AVSF.A...V.I..PLFSNMII.AD...KVI.N..NNLN-----VQHVS--LNSHPKS.F.V.	266
8	.V.G.F.E.FDALHI.LA...IN.HL.T.A...D...KVI.NQ.NNLN-----VQHVAS--TDFGP--VY.V.	258
9	.I.G.F.E.FNDLHV.AH..V.I..SI..E..L.LN...KVT.NR.KNLH-----VQHVS--L.DAPKF.S.V.	268
10	.I..A.E.FDALHI.LACPS...IT.QL.YNI.L.AV.F..QVI.NQ.RNLN-----VQHVAE--LNDAPKV.S.V.	274
11	.M.I.A.Q.FDSLHI.AH.S...IT.PL.SN.HL.ADS...KVI.N..KNLR-----VQHVE--LQQVPKV.S.V.	281
12	.I..NA.E.FDALHV.AC...IT.PL.SN..L.AG...QVM.NQ.KNLN-----VQHVAE--LNDAPKV.S.V.	283
13	.M.INA.E.FDALHV.A...I..QLFTK.NL.LD...QVI.NQ.KNLN-----VNHVYT--LKESPKV.S.V.	276
14	.V.A.L.NVFKDFNL.....I.I..PIT.E..A..G...VI.NN.N...--IT.VVL--EGA.QTTS-.V	266
15	.V.T.L.SMFEAINP.I.....L..SIN.EA...VG.HF.KVA.NE.RD.ST-----LKAFAT--P.SAATPDL.TV	263
16	.I.I.LVSMFEAINP.I.....L..PI..EA...G.HF.KVI.NE.RD..T-----MI.SES--ALAGKNYP.IV	267
17	.V.T.L.SMFEATNP.I.....L..SIN.EA...G.HF.KVI.NE.RD..T-----LKAFVT--S.--ATPDL.IV	261
18	.V.T.L.SMFEAINP.I.....L..SI..EA...VG.HF.KVI.NE.RD..A-----MI.STS--TLTGN-.F-TIV	263
19	.I.T.LVSMFEATNP.I.....L..SI..EA...G.HF.KVI.NE.RD..T-----II..GS--FLAGKNYP.IV	264
20	.V.A.Y.K..GISLP.....V.F.VN.P..VN.ML.GG...KVI.NRY.RVEI-----AYHPAT--LTNVPKT.S.S.	254
21	.I.E.I.KIFDSIRF.P.FNS...IN.LM.QDMLL.FDV...RVV.NEYNN...Q.-----V--SLPNPLNISTA.	262

Fig. 2D

1	MLSIGYGGSIGIKFI--L	284	(SEQ ID NO. 1)
2	KFNANFLTS....R.--S	297	(SEQ ID NO. 2)
3	T.NLEHFSSE..LS..F	285	(SEQ ID NO. 3)
4	K.D...F.SE...R.MFN	272	(SEQ ID NO. 4)
5	K.N.E.F..EV.MR..F	295	(SEQ ID NO. 5)
6	T.NVA.F..EA.V..TF	279	(SEQ ID NO. 6)
7	T.NVE.F.SEF.L...F	283	(SEQ ID NO. 7)
8	T.N...F..E...RLTF	275	(SEQ ID NO. 8)
9	T.NV..F..E..VR..F	285	(SEQ ID NO. 9)
10	T.NV..F.AEV.VR..F	291	(SEQ ID NO. 10)
11	T.D...F..EV.VR..L	298	(SEQ ID NO. 11)
12	T.D...F..E..ARL.F	300	(SEQ ID NO. 12)
13	T.D.A.F..EV..R.TF	293	(SEQ ID NO. 13)
14	TIDT..F..EV.VR..TF	283	(SEQ ID NO. 14)
15	T..VCHF.VEL.GR.NF	280	(SEQ ID NO. 15)
16	T.DVF.F.IEL.GR.NFQ.	286	(SEQ ID NO. 16)
17	T..VCHF.IEL.GR.NF	278	(SEQ ID NO. 17)
18	T..VCHF.VEL.GR.NF	280	(SEQ ID NO. 18)
19	I.DVCHF.IEL.GR.AF	281	(SEQ ID NO. 19)
20	T.DTD.F.WEV.MR.T--.	271	(SEQ ID NO. 20)
21	K.DME.F.AE....-VF-V	279	(SEQ ID NO. 21)

Fig. 2E



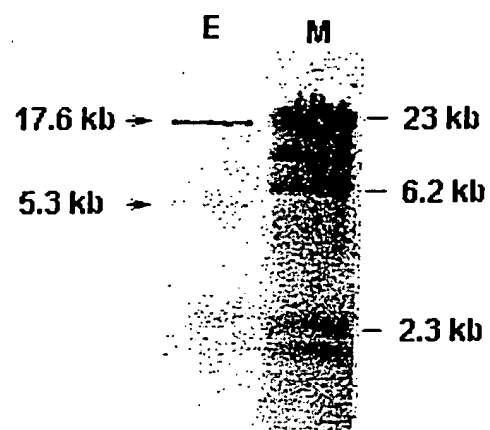


Fig. 4

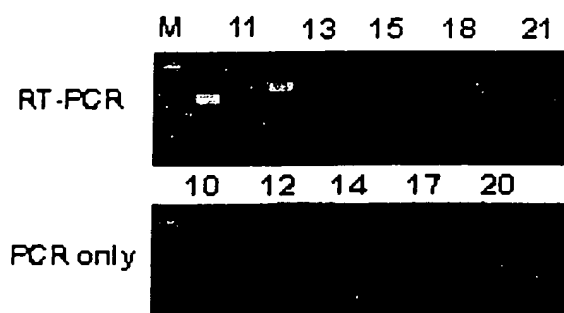


Fig. 5